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RAW SEQUENCE LISTING

DATE: 07/19/2001

PATENT APPLICATION: US/09/895,686

TIME: 15:21:35

Input Set : A:\PC0044CIPSEQLST.txt

Output Set: N:\CRF3\07192001\I895686.raw

2 <110> APPLICANT: Bandman, Olga
 3 Lal, Preeti
 4 Tang, Y. Tom
 5 Baughn, Mariah R.
 7 <120> TITLE OF INVENTION: HUMAN GPCR PROTEINS
 9 <130> FILE REFERENCE: PC-0044 CIP
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/895,686
 C--> 12 <141> CURRENT FILING DATE: 2001-06-28
 14 <160> NUMBER OF SEQ ID NOS: 74
 15 <170> SOFTWARE: PERL Program
 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 441
 19 <212> TYPE: PRT
 20 <213> ORGANISM: Homo sapiens
 22 <220> FEATURE:
 23 <221> NAME/KEY: misc_feature
 24 <223> OTHER INFORMATION: Incyte ID No: 1258981CD1
 26 <400> SEQUENCE: 1
 27 Met Ala Ile His Lys Ala Leu Val Met Cys Leu Gly Leu Pro Leu
 28 1 5 10 15
 29 Phe Leu Phe Pro Gly Ala Trp Ala Gln Gly His Val Pro Pro Gly
 30 20 25 30
 31 Cys Ser Gln Gly Leu Asn Pro Leu Tyr Tyr Asn Leu Cys Asp Arg
 32 35 40 45
 33 Ser Gly Ala Trp Gly Ile Val Leu Glu Ala Val Ala Gly Ala Gly
 34 50 55 60
 35 Ile Val Thr Thr Phe Val Leu Thr Ile Ile Leu Val Ala Ser Leu
 36 65 70 75
 37 Pro Phe Val Gln Asp Thr Lys Lys Arg Ser Leu Leu Gly Thr Gln
 38 80 85 90
 39 Val Phe Phe Leu Leu Gly Thr Leu Gly Leu Phe Cys Leu Val Phe
 40 95 100 105
 41 Ala Cys Val Val Lys Pro Asp Phe Ser Thr Cys Ala Ser Arg Arg
 42 110 115 120
 43 Phe Leu Phe Gly Val Leu Phe Ala Ile Cys Phe Ser Cys Leu Ala
 44 125 130 135
 45 Ala His Val Phe Ala Leu Asn Phe Leu Ala Arg Lys Asn His Gly
 46 140 145 150
 47 Pro Arg Gly Trp Val Ile Phe Thr Val Ala Leu Leu Leu Thr Leu
 48 155 160 165
 49 Val Glu Val Ile Ile Asn Thr Glu Trp Leu Ile Ile Thr Leu Val
 50 170 175 180
 51 Arg Gly Ser Gly Glu Gly Gly Pro Gln Gly Asn Ser Ser Ala Gly
 52 185 190 195
 53 Trp Ala Val Ala Ser Pro Cys Ala Ile Ala Asn Met Asp Phe Val
 54 200 205 210
 55 Met Ala Leu Ile Tyr Val Met Leu Leu Leu Leu Gly Ala Phe Leu

ENTERED

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56          215          220          225
57 Gly Ala Trp Pro Ala Leu Cys Gly Arg Tyr Lys Arg Trp Arg Lys
58          230          235          240
59 His Gly Val Phe Val Leu Leu Thr Thr Ala Thr Ser Val Ala Ile
60          245          250          255
61 Trp Val Val Trp Ile Val Met Tyr Thr Tyr Gly Asn Lys Gln His
62          260          265          270
63 Asn Ser Pro Thr Trp Asp Asp Pro Thr Leu Ala Ile Ala Leu Ala
64          275          280          285
65 Ala Asn Ala Trp Ala Phe Val Leu Phe Tyr Val Ile Pro Glu Val
66          290          295          300
67 Ser Gln Val Thr Lys Ser Ser Pro Glu Gln Ser Tyr Gln Gly Asp
68          305          310          315
69 Met Tyr Pro Thr Arg Gly Val Gly Tyr Glu Thr Ile Leu Lys Glu
70          320          325          330
71 Gln Lys Gly Gln Ser Met Phe Val Glu Asn Lys Ala Phe Ser Met
72          335          340          345
73 Asp Glu Pro Val Ala Ala Lys Arg Pro Val Ser Pro Tyr Ser Gly
74          350          355          360
75 Tyr Asn Gly Gln Leu Leu Thr Ser Val Tyr Gln Pro Thr Glu Met
76          365          370          375
77 Ala Leu Met His Lys Val Pro Ser Glu Gly Ala Tyr Asp Ile Ile
78          380          385          390
79 Leu Pro Arg Ala Thr Ala Asn Ser Gln Val Met Gly Ser Ala Asn
80          395          400          405
81 Ser Thr Leu Arg Ala Glu Asp Met Tyr Ser Ala Gln Ser His Gln
82          410          415          420
83 Ala Ala Thr Pro Pro Lys Asp Gly Lys Asn Ser Gln Val Phe Arg
84          425          430          435
85 Asn Pro Tyr Val Trp Asp
86          440
88 <210> SEQ ID NO: 2
89 <211> LENGTH: 353
90 <212> TYPE: PRT
91 <213> ORGANISM: Homo sapiens
92 <214> ORGANISM: Homo sapiens
93 <220> FEATURE:
94 <221> NAME/KEY: misc_feature
95 <223> OTHER INFORMATION: Incyte ID No: 1459432CD1
96 <224> OTHER INFORMATION: Incyte ID No: 1459432CD1
97 <400> SEQUENCE: 2
98 Met Asp Leu Glu Ala Ser Leu Leu Pro Thr Gly Pro Asn Ala Ser
99 1          5          10          15
100 Asn Thr Ser Asp Gly Pro Asp Asn Leu Thr Ser Ala Gly Ser Pro
101          20          25          30
102 Pro Arg Thr Gly Ser Ile Ser Tyr Ile Asn Ile Ile Met Pro Ser
103          35          40          45
104 Val Phe Gly Thr Ile Cys Leu Leu Gly Ile Ile Gly Asn Ser Thr
105          50          55          60
106 Val Ile Phe Ala Val Val Lys Lys Ser Lys Leu His Trp Cys Asn
107          65          70          75

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```

108 Asn Val Pro Asp Ile Phe Ile Ile Asn Leu Ser Val Val Asp Leu
109                      80                      85                      90
110 Leu Phe Leu Leu Gly Met Pro Phe Met Ile His Gln Leu Met Gly
111                      95                      100                      105
112 Asn Gly Val Trp His Phe Gly Glu Thr Met Cys Thr Leu Ile Thr
113                      110                      115                      120
114 Ala Met Asp Ala Asn Ser Gln Phe Thr Ser Thr Tyr Ile Leu Thr
115                      125                      130                      135
116 Ala Met Ala Ile Asp Arg Tyr Leu Ala Thr Val His Pro Ile Ser
117                      140                      145                      150
118 Ser Thr Lys Phe Arg Lys Pro Ser Val Ala Thr Leu Val Ile Cys
119                      155                      160                      165
120 Leu Leu Trp Ala Leu Ser Phe Ile Ser Ile Thr Pro Val Trp Leu
121                      170                      175                      180
122 Tyr Ala Arg Leu Ile Pro Phe Pro Gly Gly Ala Val Gly Cys Gly
123                      185                      190                      195
124 Ile Arg Leu Pro Asn Pro Asp Thr Asp Leu Tyr Trp Phe Thr Leu
125                      200                      205                      210
126 Tyr Gln Phe Phe Leu Ala Phe Ala Leu Pro Phe Val Val Ile Thr
127                      215                      220                      225
128 Ala Ala Tyr Val Arg Ile Leu Gln Arg Met Thr Ser Ser Val Ala
129                      230                      235                      240
130 Pro Thr Ser Gln Arg Ser Ile Arg Leu Arg Thr Lys Arg Val Thr
131                      245                      250                      255
132 Arg Thr Ala Ile Ala Ile Cys Leu Val Phe Phe Val Cys Trp Ala
133                      260                      265                      270
134 Pro Tyr Tyr Val Leu Gln Leu Thr Gln Leu Ser Ile Ser Arg Pro
135                      275                      280                      285
136 Thr Pro Thr Phe Val Tyr Leu Tyr Asn Ala Ala Ile Ser Leu Gly
137                      290                      295                      300
138 Tyr Ala Asn Ser Cys Leu Asn Pro Phe Val Tyr Ile Val Leu Cys
139                      305                      310                      315
140 Glu Thr Phe Arg Lys Arg Leu Val Leu Ser Val Lys Pro Ala Ala
141                      320                      325                      330
142 Gln Gly Gln Leu Arg Ala Val Ser Asn Ala Gln Ala Ala Asp Glu
143                      335                      340                      345
144 Glu Arg Thr Glu Ser Lys Gly Thr
145                      350
147 <210> SEQ ID NO: 3
148 <211> LENGTH: 333
149 <212> TYPE: PRT
150 <213> ORGANISM: Homo sapiens
152 <220> FEATURE:
153 <221> NAME/KEY: misc_feature
154 <223> OTHER INFORMATION: Incyte ID No: 2214673CD1
156 <400> SEQUENCE: 3
157 Met Trp Ser Cys Ser Trp Phe Asn Gly Thr Gly Leu Val Glu Glu
158 1                      5                      10                      15
159 Leu Pro Ala Cys Gln Asp Leu Gln Leu Gly Leu Ser Leu Leu Ser

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```

160          20          25          30
161 Leu Leu Gly Leu Val Val Gly Val Pro Val Gly Leu Cys Tyr Asn
162          35          40          45
163 Ala Leu Leu Val Leu Ala Asn Leu His Ser Lys Ala Ser Met Thr
164          50          55          60
165 Met Pro Asp Val Tyr Phe Val Asn Met Ala Val Ala Gly Leu Val
166          65          70          75
167 Leu Ser Ala Leu Ala Pro Val His Leu Leu Gly Pro Pro Ser Ser
168          80          85          90
169 Arg Trp Ala Leu Trp Ser Val Gly Gly Glu Val His Val Ala Leu
170          95         100         105
171 Gln Ile Pro Phe Asn Val Ser Ser Leu Val Ala Met Tyr Ser Thr
172         110         115         120
173 Ala Leu Leu Ser Leu Asp His Tyr Ile Glu Arg Ala Leu Pro Arg
174         125         130         135
175 Thr Tyr Met Ala Ser Val Tyr Asn Thr Arg His Val Cys Gly Phe
176         140         145         150
177 Val Trp Gly Gly Ala Leu Leu Thr Ser Phe Ser Ser Leu Leu Phe
178         155         160         165
179 Tyr Ile Cys Ser His Val Ser Thr Arg Ala Leu Glu Cys Ala Lys
180         170         175         180
181 Met Gln Asn Ala Glu Ala Ala Asp Ala Thr Leu Val Phe Ile Gly
182         185         190         195
183 Tyr Val Val Pro Ala Leu Ala Thr Leu Tyr Ala Leu Val Leu Leu
184         200         205         210
185 Ser Arg Val Arg Arg Glu Asp Thr Pro Leu Asp Arg Asp Thr Gly
186         215         220         225
187 Arg Leu Glu Pro Ser Ala His Arg Leu Leu Val Ala Thr Val Cys
188         230         235         240
189 Thr Gln Phe Gly Leu Trp Thr Pro His Tyr Leu Ile Leu Leu Gly
190         245         250         255
191 His Thr Gly Ile Ile Ser Arg Gly Lys Pro Val Asp Ala His Tyr
192         260         265         270
193 Leu Gly Leu Leu His Phe Val Lys Asp Phe Ser Lys Leu Leu Ala
194         275         280         285
195 Phe Ser Ser Ser Phe Val Thr Pro Leu Leu Tyr Arg Tyr Met Asn
196         290         295         300
197 Gln Ser Phe Pro Ser Lys Leu Gln Arg Leu Met Lys Lys Leu Pro
198         305         310         315
199 Cys Gly Asp Arg His Cys Ser Pro Asp His Met Gly Val Gln Gln
200         320         325         330
201 Val Leu Ala
204 <210> SEQ ID NO: 4
205 <211> LENGTH: 396
206 <212> TYPE: PRT
207 <213> ORGANISM: Homo sapiens
209 <220> FEATURE:
210 <221> NAME/KEY: misc_feature
211 <223> OTHER INFORMATION: Incyte ID No: 2488822CD1

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213 <400> SEQUENCE: 4

214	Met	Phe	Arg	Pro	Leu	Val	Asn	Leu	Ser	His	Ile	Tyr	Phe	Lys	Lys
215	1				5					10					15
216	Phe	Gln	Tyr	Cys	Gly	Tyr	Ala	Pro	His	Val	Arg	Ser	Cys	Lys	Pro
217					20					25					30
218	Asn	Thr	Asp	Gly	Ile	Ser	Ser	Leu	Glu	Asn	Leu	Leu	Ala	Ser	Ile
219					35					40					45
220	Ile	Gln	Arg	Val	Phe	Val	Trp	Val	Val	Ser	Ala	Val	Thr	Cys	Phe
221					50					55					60
222	Gly	Asn	Ile	Phe	Val	Ile	Cys	Met	Arg	Pro	Tyr	Ile	Arg	Ser	Glu
223					65					70					75
224	Asn	Lys	Leu	Tyr	Ala	Met	Ser	Ile	Ile	Ser	Leu	Cys	Cys	Ala	Asp
225					80					85					90
226	Cys	Leu	Met	Gly	Ile	Tyr	Leu	Phe	Val	Ile	Gly	Gly	Phe	Asp	Leu
227					95					100					105
228	Lys	Phe	Arg	Gly	Glu	Tyr	Asn	Lys	His	Ala	Gln	Leu	Trp	Met	Glu
229					110					115					120
230	Ser	Thr	His	Cys	Gln	Leu	Val	Gly	Ser	Leu	Ala	Ile	Leu	Ser	Thr
231					125					130					135
232	Glu	Val	Ser	Val	Leu	Leu	Leu	Thr	Phe	Leu	Thr	Leu	Glu	Lys	Tyr
233					140					145					150
234	Ile	Cys	Ile	Val	Tyr	Pro	Phe	Arg	Cys	Val	Arg	Pro	Gly	Lys	Cys
235					155					160					165
236	Arg	Thr	Ile	Thr	Val	Leu	Ile	Leu	Ile	Trp	Ile	Thr	Gly	Phe	Ile
237					170					175					180
238	Val	Ala	Phe	Ile	Pro	Leu	Ser	Asn	Lys	Glu	Phe	Phe	Lys	Asn	Tyr
239					185					190					195
240	Tyr	Ala	Pro	Asn	Gly	Val	Cys	Phe	Pro	Leu	His	Ser	Glu	Asp	Thr
241					200					205					210
242	Glu	Ser	Ile	Gly	Ala	Gln	Ile	Tyr	Ser	Val	Ala	Ile	Phe	Leu	Gly
243					215					220					225
244	Ile	Asn	Leu	Ala	Ala	Phe	Ile	Ile	Ile	Val	Phe	Ser	Tyr	Gly	Ser
245					230					235					240
246	Met	Phe	Tyr	Ser	Val	His	Gln	Ser	Ala	Ile	Thr	Ala	Thr	Glu	Ile
247					245					250					255
248	Arg	Asn	Gln	Val	Lys	Lys	Glu	Met	Ile	Leu	Ala	Lys	Arg	Phe	Phe
249					260					265					270
250	Phe	Ile	Val	Phe	Thr	Asp	Ala	Leu	Cys	Trp	Ile	Pro	Ile	Phe	Val
251					275					280					285
252	Val	Lys	Phe	Leu	Ser	Leu	Leu	Gln	Val	Glu	Ile	Pro	Gly	Thr	Ile
253					290					295					300
254	Thr	Ser	Trp	Val	Val	Ile	Phe	Ile	Leu	Pro	Ile	Asn	Ser	Ala	Leu
255					305					310					315
256	Asn	Pro	Ile	Leu	Tyr	Thr	Leu	Thr	Thr	Arg	Pro	Phe	Lys	Glu	Met
257					320					325					330
258	Ile	His	Arg	Phe	Trp	Tyr	Asn	Tyr	Arg	Gln	Arg	Lys	Ser	Met	Asp
259					335					340					345
260	Ser	Lys	Gly	Gln	Lys	Thr	Tyr	Ala	Pro	Ser	Phe	Ile	Trp	Val	Glu
261					350					355					360

Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY

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Input Set : A:\PC0044CIPSEQLIST.txt

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L:11 M:270 C: Current Application Number differs, Replaced Current Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:740 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13

L:741 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13

L:742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13

L:811 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17

L:812 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17

L:814 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17

L:815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17

L:835 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18

L:836 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18

L:837 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18

L:838 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18

L:839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18

L:840 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18

L:841 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18

L:842 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18

L:864 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19

L:866 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19

L:867 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19

L:868 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19

L:869 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19

L:870 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19

L:871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19

L:958 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24

L:1000 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26

L:1001 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26

L:1007 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26

L:1059 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29

L:1060 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29

L:1061 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29

L:1062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29

L:1063 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29

L:1127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33

L:1128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33

L:1153 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34

L:1155 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34

L:1157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34

L:1177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35

L:1199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36

L:1200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36

L:1202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36

L:1204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36

L:1231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37

L:1254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38

L:1256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38

L:1257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38

L:1258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38

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Input Set : A:\PC0044CIPSEQLIST.txt

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L:1314 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:1315 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:1335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:1336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42